

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for the formation of a good contact surface on a support bar of an electrode used in electrolysis, comprising immersing ~~where~~ an electrode plate ~~is immersed~~ in the electrolysis cell, ~~and a plate support bar is supported~~ supporting a plate support bar by its ends on the edges of the electrolysis cell so that wherein the highly electroconductive end is held on a busbar, characterised in that ~~forming~~ a highly electroconductive layer ~~is formed~~ on at least one end of the support bar made of aluminium, ~~[[by]]~~ coating the lower surface of the aluminium end of the bar, ~~[[i.e.]]~~ the contact surface, with silver or silver alloy and the ~~highly electroconductive coating~~ material forms forming a metallurgical bond with the aluminium support bar and ~~highly electroconductive coating~~ material.
2. (Currently Amended) [[A]] The method according to claim 1, characterised in that wherein the silver alloy is silver-copper.
3. (Currently Amended) [[A]] The method according to claim 1, characterised in that wherein the highly electroconductive coating layer is formed of two layers having a transmission layer between them wherein the first layer is copper and the second silver or silver alloy, the transmission layer being tin or tin-dominate alloy.
4. (Currently Amended) [[A]] The method according to any of claims claim 1 [[- 3]], characterised in that wherein the support bar is equipped with a casing section made of some other material.
5. (Currently Amended) [[A]] The method according to any of claims claim 1 [[- 4]], characterised in that wherein the highly electroconductive coating layer is formed using thermal spraying technique.
6. (Currently Amended) [[A]] The method according to claim 5, characterised in that wherein the thermal spraying technique is based on gas combustion.

7. (Currently Amended) [[A]]The method according to claim 5 [[or 6]],
~~characterised in that wherein~~ the thermal spraying technique is high velocity oxy-fuel spraying.

8. (Currently Amended) [[A]]The method according to ~~any of claims~~ claim 1
[[- 7]], ~~characterised in that wherein~~ the highly electroconductive coating material is in powder
form.

9. (Currently Amended) [[A]]The method according to claim 5 [[or 6]],
~~characterised in that wherein~~ the thermal spraying technique is flame spraying.

10. (Currently Amended) [[A]]The method according to ~~any of claims~~ claim 1
[[- 6 or 9]], ~~characterised in that wherein~~ the highly electroconductive coating material is in wire
form.

11. (Currently Amended) [[A]]The method according to claim 3,
~~characterised in that wherein~~ the first layer is formed by thermal spraying technique and the
second by soldering.

12. (Currently Amended) [[A]]The method according to ~~any of claims~~ claim 1
[[- 11]], ~~characterised in that wherein~~ at least one end of the aluminium support bar is furnished
on the lower surface with a notch, and that the notch area is coated with a highly
electroconductive material.

13. (Currently Amended) A support bar for an electrode used in electrolysis,
~~wherein~~ a plate section of the electrode is ~~meant to be immersed~~ immersible in an electrolysis
cell and a support bar ~~to be supported~~ is supportable by its ends on the edges of the electrolysis
cell, ~~characterised in that wherein~~ the area on the lower surface of the end of the aluminium
support bar, [[i.e.]] the contact surface, ~~is coated with~~ comprising a highly electroconductive
coating layer ~~being of~~ silver or silver alloy and ~~that wherein said~~ highly electroconductive
coating layer forms material has ~~formed~~ a metallurgical bond with the aluminium support bar.

14. (Currently Amended) [[A]]The support bar according to claim 13,
~~characterised in that wherein~~ the silver alloy is silver-copper.

15. (Currently Amended) [[A]]The support bar according to claim 13,
~~characterised in that wherein~~ the highly electroconductive coating layer is formed of copper and
silver with a transmission layer between them.

16. (Currently Amended) [[A]]The support bar according to any of claims
claim 13[[- 15]], characterised in that wherein the support bar is equipped with a casing section
made of some other material.

17. (Currently Amended) [[A]]The support bar according to any of
claimsclaim 13[[- 16]], characterised in that wherein the highly electroconductive coating layer
is formed using thermal spraying technique.

18. (Currently Amended) [[A]]The support bar according to claim 15,
characterised in that wherein the highly electroconductive coating layer is formed using thermal
spraying technique and soldering.